

NWB Annual Report**Year being reported:**

2014

License No: 1BR-ROB0813**Issued Date:** August 8, 2008**Expiry Date:** August 30, 2013**Project Name:** Roberts Bay and Ida Bay Mine Site Remediation Project**Licensee:** Aboriginal Affairs and Northern Development Canada (AANDC)**Mailing Address:**
PO Box 2200
Iqaluit, NU
X0A 0H0**Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):****General Background Information on the Project (*optional):**

Roberts Bay and Ida Bay are abandoned mine sites located approximately 115 km southwest of Cambridge Bay, on the north coast of mainland Nunavut. The Roberts Bay site is located approximately 1 km north of Roberts Lake while the Ida Bay mine site is located adjacent to Melville Sound about 7 km north of the Roberts Bay site. The two sites are collectively referred to as the Roberts Lake Area.

Exploration for silver at Roberts Bay and for silver and gold at Ida Bay were carried out at the Robert Lakes Area between 1965 and 1972. The Roberts Bay site was an active silver mine in the early 1970s and was the subject of exploration in the 1980s and 1990s.

Clean-up activities were conducted at the sites between 2008 and 2010, including demolition of remaining site structures, securing mine openings, and disposal of non-hazardous waste and contaminated soils. A non-hazardous waste landfill (NHWL) was constructed over the former tailings pond at Roberts Bay. Non-hazardous waste and contaminated soils from Ida Bay and Roberts Bay were placed in the NHWL and covered with granular material.

Thermistors were installed in the NHWL to monitor permafrost freezeback. As per departmental commitments to monitor the landfill post-closure, a long term monitoring program was initiated in August 2010 and long term monitoring events were completed at the site in August 2010, August 2012 and August 2014.

Licence Requirements: the licensee must provide the following information in accordance with

Part B

Item 1

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):	Small quantities from Roberts Lake and ponded water around the landfill		
Water Quantity:	5	Quantity Allowable Domestic (cu.m)	
	<0.025	Actual Quantity Used Domestic (cu.m)	
		Quantity Allowable Drilling (cu.m)	
		Total Quantity Used Drilling (cu.m)	

Waste Management and/or Disposal

- ☒ Solid Waste Disposal
☐ Sewage
☐ Drill Waste
☐ Greywater
☐ Hazardous
☐ Other:

Additional Details:

The Long Term Monitoring team visited the site August 20-21, 2014. As per attached 2014 Roberts Bay Long Term Monitoring Report, surface water samples were taken from the site to confirm the non-hazardous landfill is performing adequately.

No sewage or grey water were generated during the 2014 long term monitoring event. Solid wastes generated during the monitoring event (< 0.5 m³) were collected and removed from the site at the completion of monitoring activities.

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: (as reported to the Spill Hot-line)
 Date of Spill:
 Date of Notification to an Inspector:
 Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed ▼

Additional Details:

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed ▼

Additional Details:

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

WORK COMPLETED

- Long Term Monitoring commenced August 2010
 - Years 1, 3, and 5 of the long term monitoring program have been completed

FUTURE WORK PROPOSED

- Long- Term Monitoring
 - Started in 2010, continues until 2034
 - Year 7 of the 25-year long term monitoring plan is scheduled for August 2016
 - Future events will occur in 2019, 2024, 2034

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Details attached



Additional Details:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Not Applicable (N/A)



Additional Details:

Results of any additional sampling and/or analysis that was requested by an Inspector

No additional sampling requested by an Inspector or the Board



Additional Details: (date of request, analysis of results, data attached, etc)

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (Attached or provided below)

Any responses or follow-up actions on inspection/compliance reports

No inspection and/or compliance report issued by INAC ▼

Additional Details: (Dates of Report, Follow-up by the Licensee)

Any additional comments or information for the Board to consider

Following analysis of data collected during the 2014 monitoring event, it was determined that the Site and its non-hazardous waste landfill continue to operate as designed.

A license amendment was submitted to the NWB July 9, 2014 for the **Roberts Bay Long Term Monitoring Program**. The renewed license will permit AANDC to continue its long term monitoring activities at the site.

Date Submitted:

June 26, 2015

Submitted/Prepared by:

Lilianne Arsenault

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GPS Coordinates for water sources utilized

Source Description	Latitude			Longitude		
	Deg °	Min ,	Sec '	Deg °	Min ,	Sec '
ROB6	68	10	43.9	106	33	25.2
ROB7	68	10	47.8	106	32	34.9
ROB8	68	10	54.0	106	33	23.6
ROB9	68	10	15.1	106	33	21.1
ROB10	68	10	48.5	106	33	26.9

GPS Locations of areas of waste disposal

[illegible]